USSN 10/608,605

-2-

PATENT

In the Claims

The claims currently pending in the application are as follows:

1. (currently amended) A packaging device for a semiconductor die, the packaging device comprising:

a substantially planar substrate having opposed major surfaces;

located on one of the major surfaces; a conductive <u>die mounting pad for</u>

5 <u>attachment of dimensioned to accommodate</u> the die with a major surface of the die in contact therewith;

a conductive connecting pad located on the other of the major surfaces; and a conductive interconnecting element extending through the substrate and electrically interconnecting the mounting pad and the connecting pad.

- 2. (original) The packaging device of claim 1, in which the substrate comprises ceramic.
- 3. (original) The packaging device of claim 1, in which the substrate comprises a material selected from epoxy laminate and silicon.
- 4. (original) The packaging device of claim 1, in which the mounting pad and the connecting pad each comprise at least one of copper, silver, gold, nickel and tungsten.
- 5. (original) The packaging device of claim 1, in which the conductive interconnecting element comprises tungsten.

Best Aveileble Copy

P. 05

USSN 10/608,605

-3-

PATENT

- 6. (currently amended) The packaging device of claim 1, additionally comprising:
- a bonding pad smaller in area than the die mounting pad, the bonding pad located on the one of the major surfaces,
- 5 an additional conductive connecting pad located on the other of the major surfaces, and

an additional conductive interconnecting element extending through the substrate and electrically interconnecting the bonding pad and the additional connecting pad.

- 7. (original) The packaging device of claim 6, in which the substrate comprises ceramic.
- 8. (original) The packaging device of claim 6, in which the substrate comprises a material selected from epoxy laminate and silicon.
- 9. (original) The packaging device of claim 6, in which the mounting pad, the bonding pad and the connecting pads each comprise at least one of copper, silver, gold, nickel and tungsten.
- 10. (original) The packaging device of claim 6, in which the interconnecting element comprises tungsten.

USSN 10/608,605

AGILENT LEGAL LABS

PATENT

4

- 11. (currently amended) A semiconductor device, comprising:
- a semiconductor die;
- a substantially planar substrate having opposed major surfaces;
- a conductive mounting pad-located on one of the major surfaces, a conductive die
- 5 mounting pad dimensioned to accommodate the semiconductor die;
 - a conductive connecting pad located on the other of the major surfaces; and a conductive interconnecting element extending through the substrate and electrically interconnecting the mounting pad and the connecting pad; and

in which the a-semiconductor die is mounted on attached to the die mounting pad

with a major surface thereof in contact with the mounting pad.

- 12. (original) The semiconductor device of claim 11, in which the substrate comprises ceramic.
- 13. (original) The semiconductor device of claim 11, in which the substrate comprises a material selected from epoxy laminate and silicon.
- 14. (original) The semiconductor device of claim 11, in which the mounting pad and the connecting pad each comprise at least one of copper, silver, gold, nickel and tungsten.
- 15. (original) The semiconductor device of claim 11, in which the conductive interconnecting element comprises tungsten.

5

USSN 10/608,605

-5-

PATENT

16. (currently amended) The semiconductor device of claim 11, additionally comprising:

Fax:6504855487

- a conductive bonding pad smaller in area than the die mounting pad, the bonding pad located on the one of the major surfaces;
- an additional conductive connecting pad located on the other of the major surfaces;

an additional conductive interconnecting element extending through the substrate and electrically interconnecting the bonding pad and the additional connecting pad, and a bonding wire extending between the semiconductor die and the bonding pad.

- 17. (original) The semiconductor device of claim 16, additionally comprising an encapsulant encapsulating the semiconductor die and at least a portion of the major surface of the substrate on which the mounting pad is located.
- 18. (original) The semiconductor device of claim 16, in which the substrate comprises a material selected from ceramic, epoxy laminate and silicon.
- 19. (original) The semiconductor device of claim 16, in which the mounting pad, the bonding pad and the connecting pads each comprise at least one of copper, silver, gold, nickel and tungsten.
- 20. (original) The semiconductor device of claim 16, in which the conductive interconnecting element comprises tungsten.

This Page is Inserted by IFW Indexing and Scanning Operations and is not part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

□ BLACK BORDERS
□ IMAGE CUT OFF AT TOP, BOTTOM OR SIDES
□ FADED TEXT OR DRAWING
□ BLURRED OR ILLEGIBLE TEXT OR DRAWING
□ SKEWED/SLANTED IMAGES
□ COLOR OR BLACK AND WHITE PHOTOGRAPHS
□ GRAY SCALE DOCUMENTS
□ COLOR MARKS ON ORIGINAL DOCUMENT
□ REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY

IMAGES ARE BEST AVAILABLE COPY.

☐ OTHER:

As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.